

### Amendments to the Specification

On page 2, lines 12-30, please delete the paragraph and substitute therefor:

The invention provides a crystalline complex containing *T. foetus* inosine monophosphate dehydrogenase (IMPDH) in complex with inosine monophosphate (IMP), the complex specified by disclosed atomic coordinates. Also provided are crystalline complexes of containing *T. foetus* IMPDH with both inosine monophosphate (IMP) and mycophenolic acid, with both xanthosine monophosphate (XMP) and mycophenolic acid, with both xanthosine monophosphate (XMP) and nicotinic adenine dinucleotide (NAD), with ~~ribovirin~~ ribavirin (1- $\beta$ -D-ribofuranosyl-1,2,4-triazole-3-carboxamide), and with both ~~ribovirin~~ ribavirin and mycophenolic acid, each complex specified by disclosed atomic coordinates. The *T. foetus* IMPDH structures have complete active sites. Also provided by the invention are the atomic coordinates for these complexes. Further provided by the invention are methods for identifying a modulator of IMPDH that employ the atomic coordinates of the invention.

On page 8, line 26, through page 9, line 3, please delete the paragraph and substitute therefor:

This invention relates to ~~eystalline~~ crystalline compositions of *Tritrichomonas foetus* (*T. foetus*) inosine ~~monophosphate~~ monophospate dehydrogenase (IMPDH) complexes with its natural substrate, product, cofactor and inhibitors. The invention further relates to the discovery of high resolution crystal structures of different complexes of IMPDH, including complexes with its substrate IMP; with IMP and inhibitor mycophenolic acid (MPA); with inhibitor ~~ribovirin~~ ribavirin; with MOA and ~~ribovirin~~ ribavirin; with the product XMP and MOA; and with XMP and the cofactor NAD<sup>+</sup>.

On page 10, lines 25-29, please delete the paragraph and substitute therefor:

The invention further provides atomic coordinates for the bound complex of *T. foetus* IMPDH with ~~ribovirin~~ ribavirin (1- $\beta$ -D-ribofuranosyl-1,2,4-triazole-3-carboxamide). The atomic coordinates for the IMPDH-ribavirin ~~ribovirin~~ complex are provided in Table 7.

On page 10, line 31, to page 11, line 2, please delete the paragraph and substitute therefor:

The invention further provides atomic coordinates for the bound complex of *T. foetus* IMPDH with ~~ribovirin~~ ribavirin and MOA. The atomic coordinates for the ~~IMPDH—ribovirin~~ IMPDH-ribavirin complex are provided in Table 6.

On page 44, lines 4-5, please delete the title of Example VII and substitute therefor:

Crystallization to *T. foetus* IMPDH  
with ~~Ribovirin~~ Ribavirin